

FIG. 1

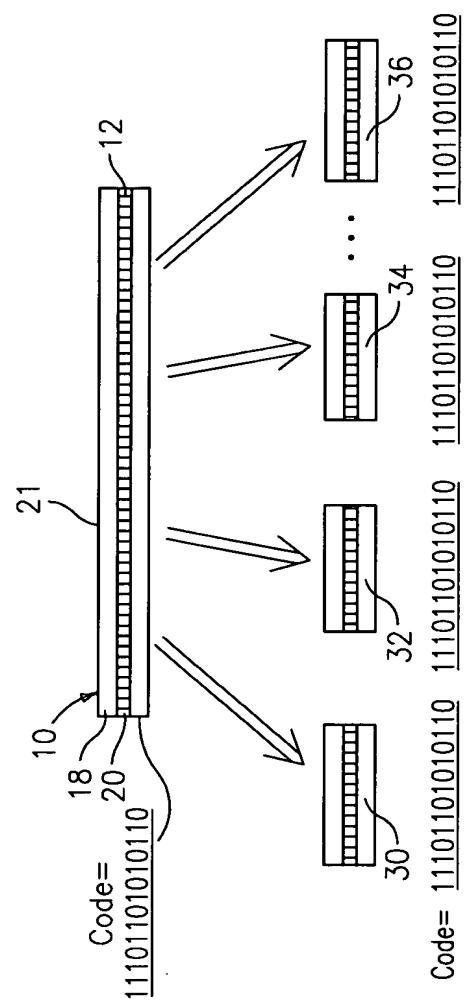


FIG. 2

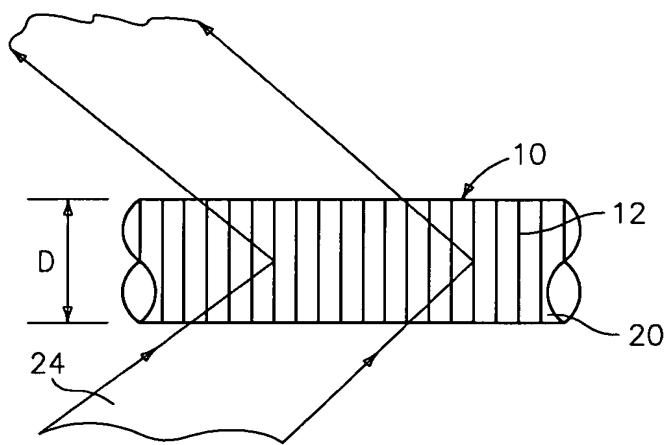


FIG. 3

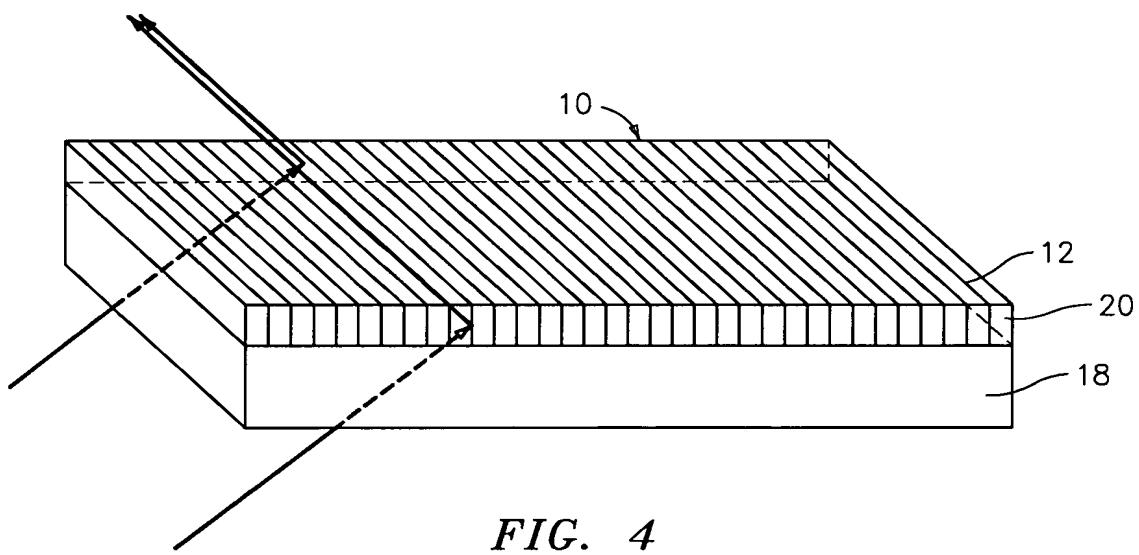


FIG. 4

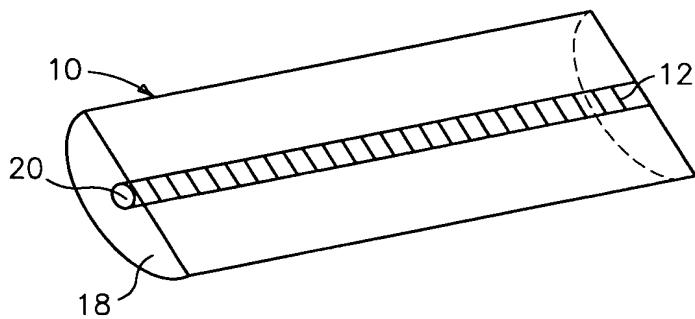


FIG. 5

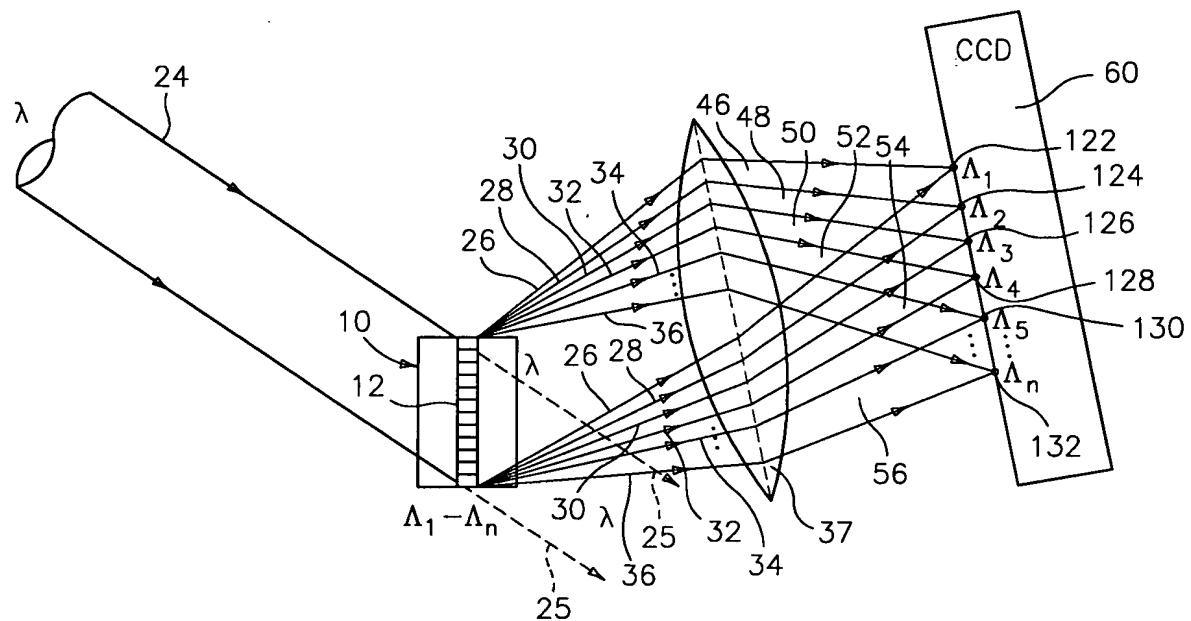


FIG. 6

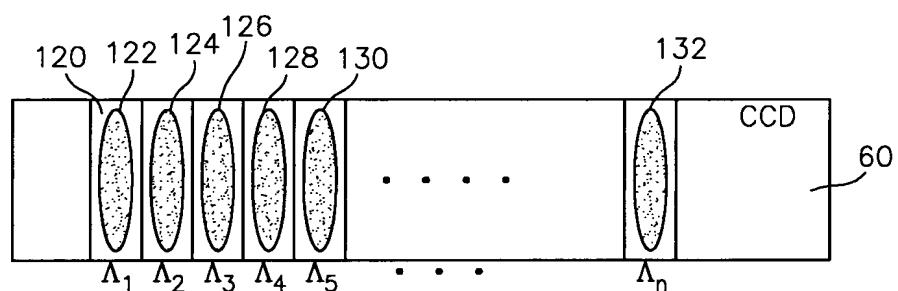


FIG. 7

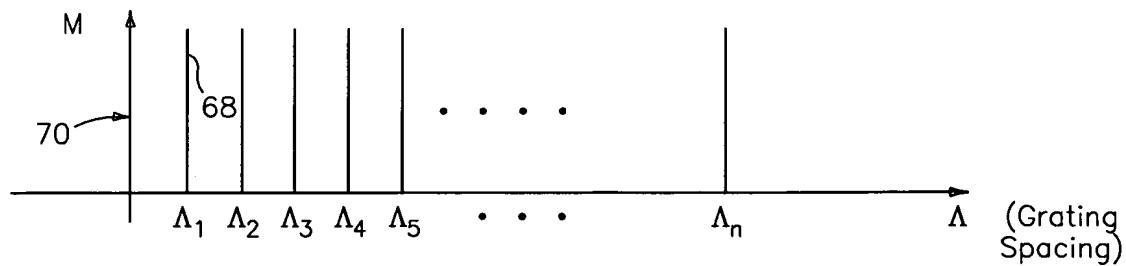


FIG. 8

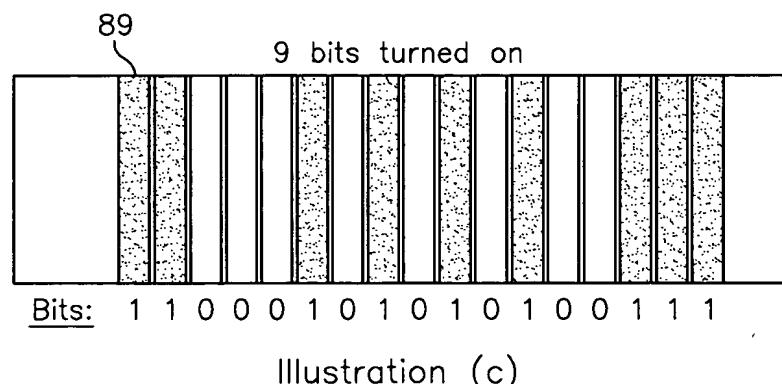
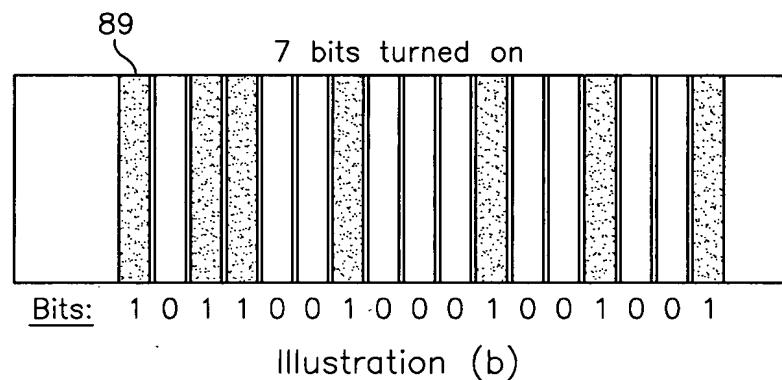
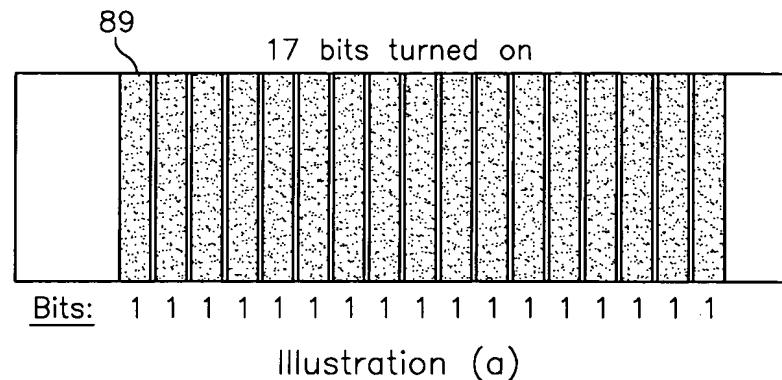


FIG. 9

Illustration of refractive index profile for single grating with a period of 1 micron

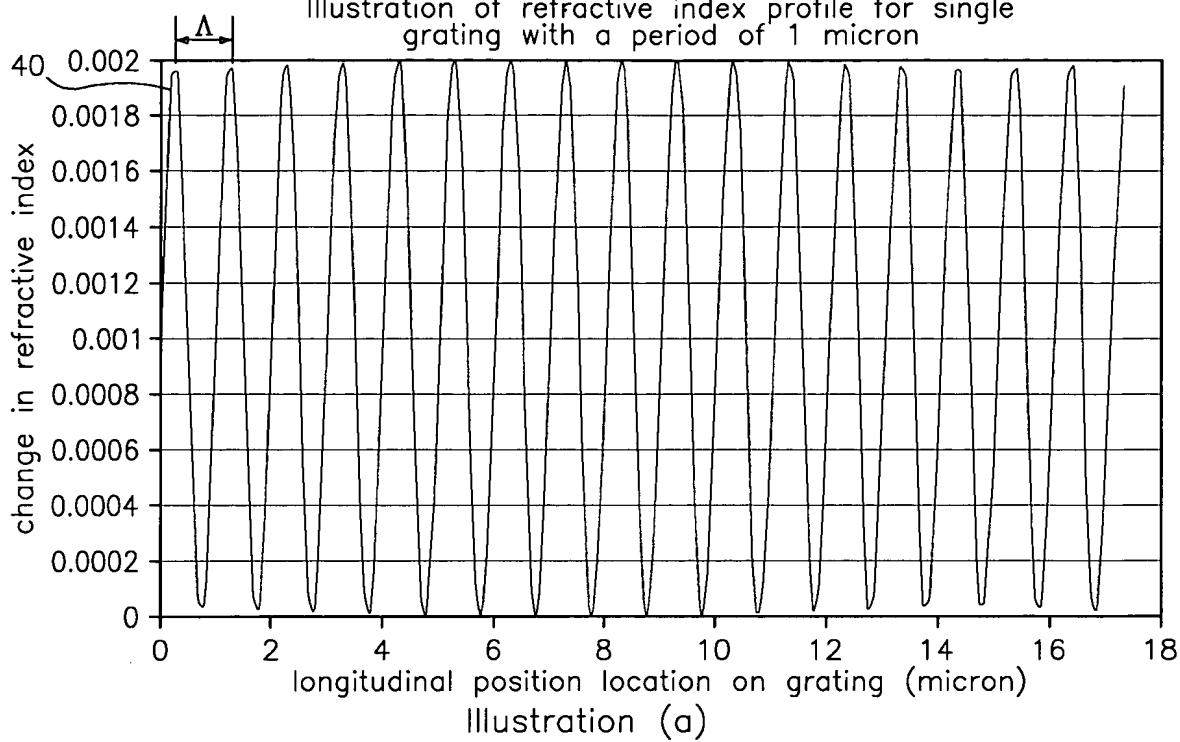


Illustration of refractive index profile for 3 colocated gratings whose period vary by 0.3%

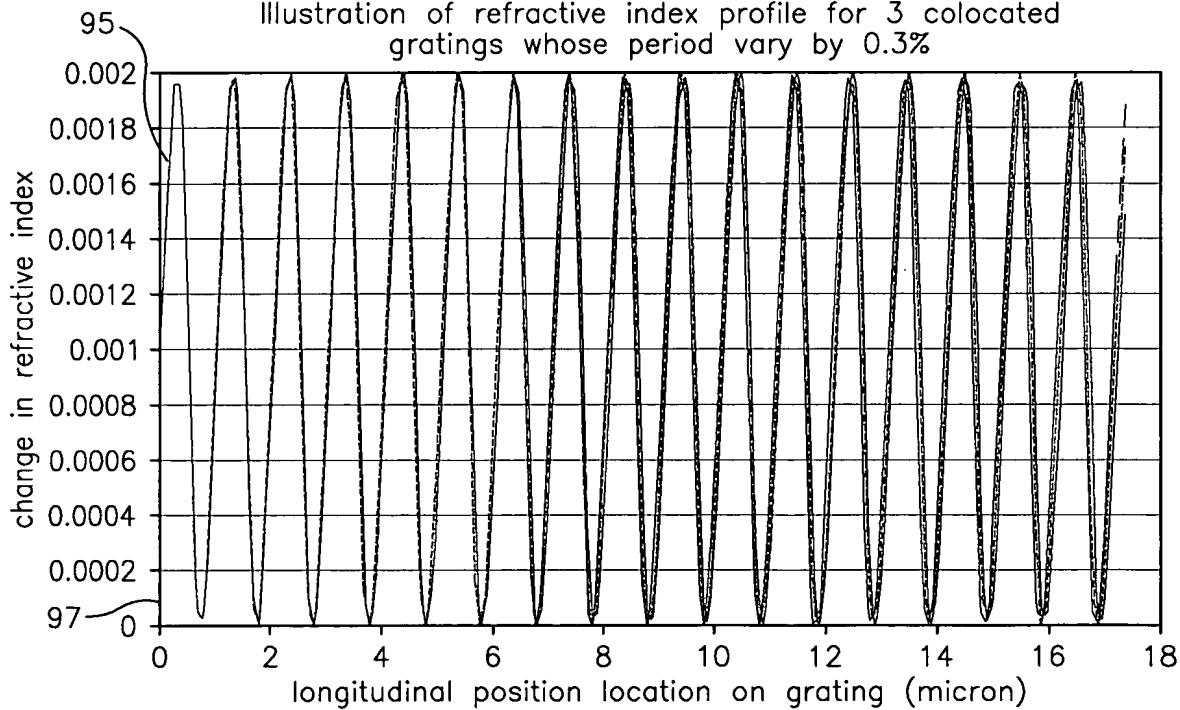


FIG. 10

Illustration (c)

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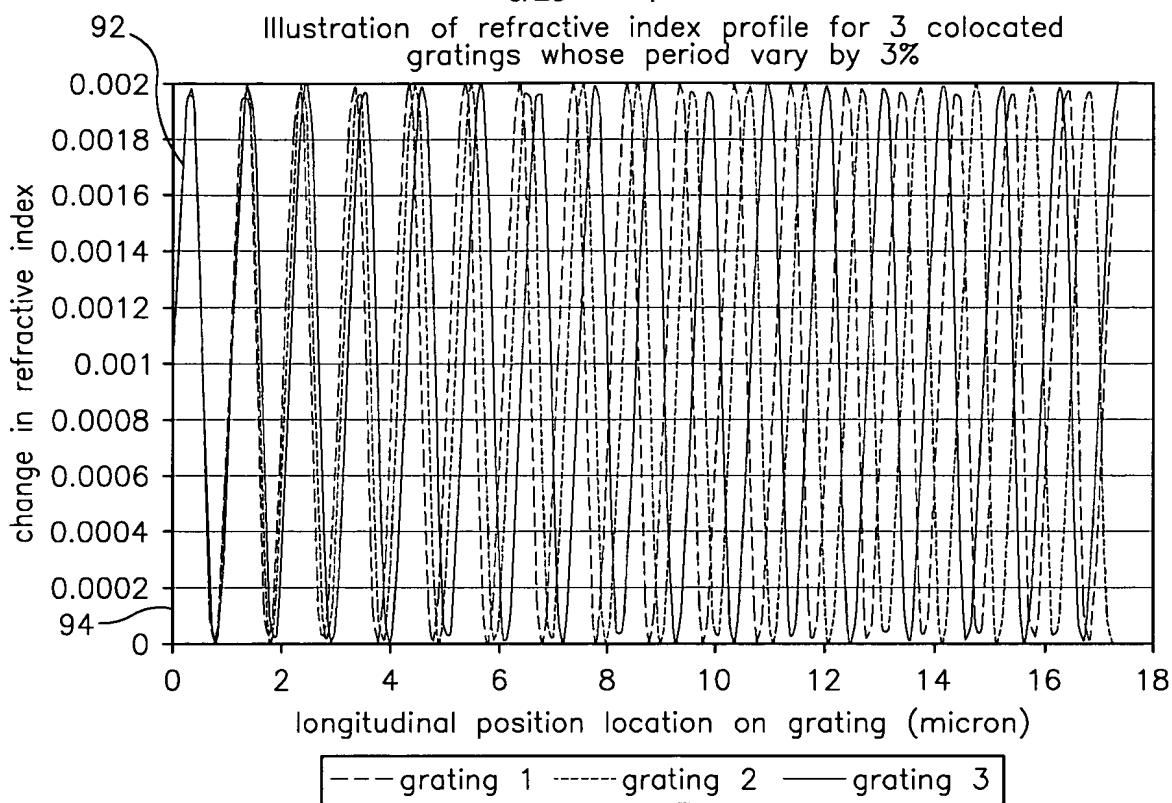


Illustration (b)

Index modulation caused by superposition of 3 gratings where the pitch between each grating varies by 3%.

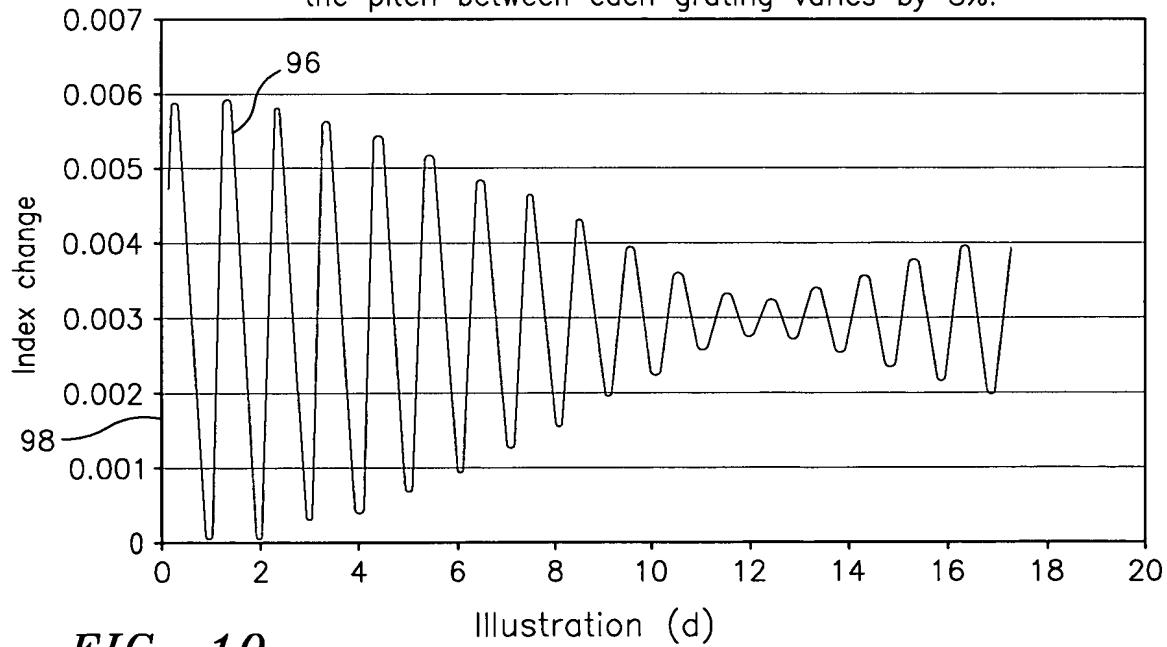
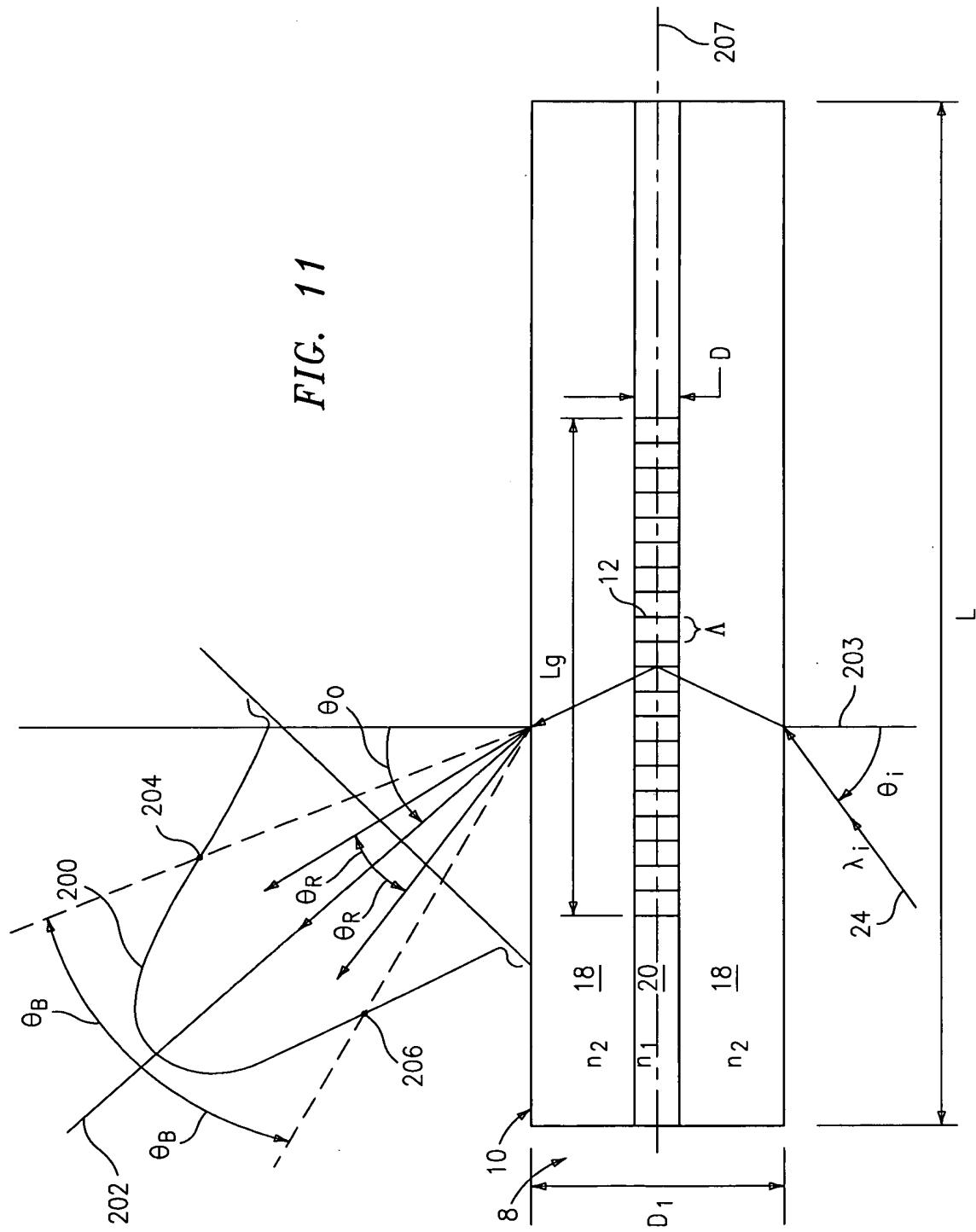


FIG. 10

FIG. 11



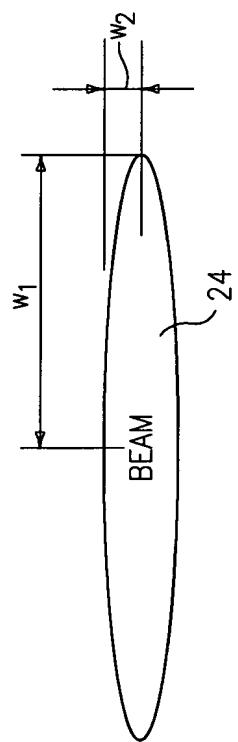


FIG. 16

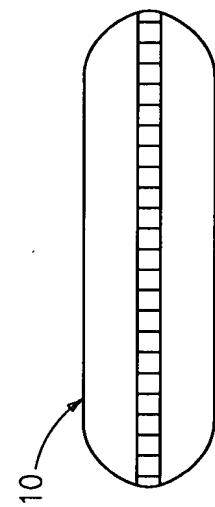


FIG. 17

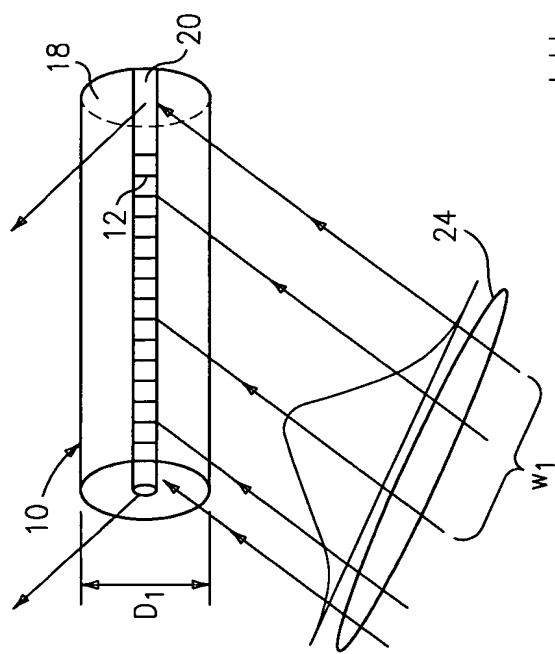


FIG. 12

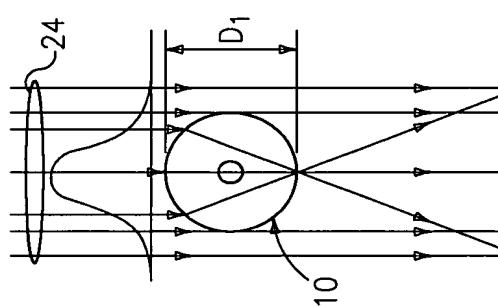


FIG. 13

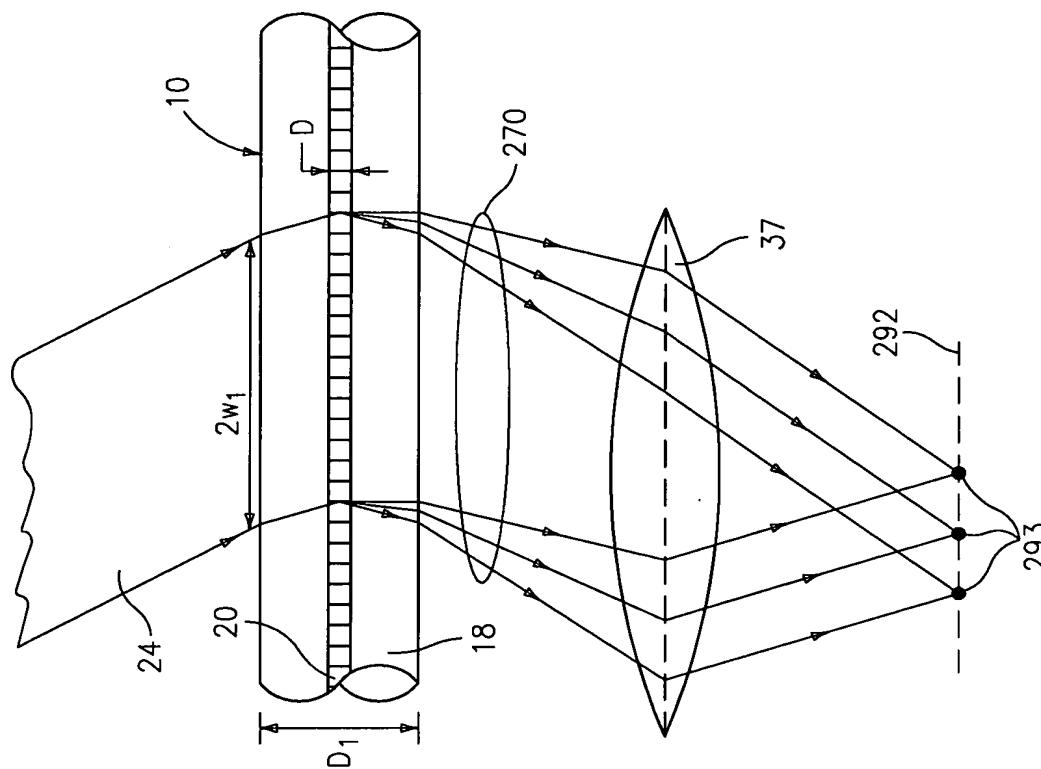


FIG. 14

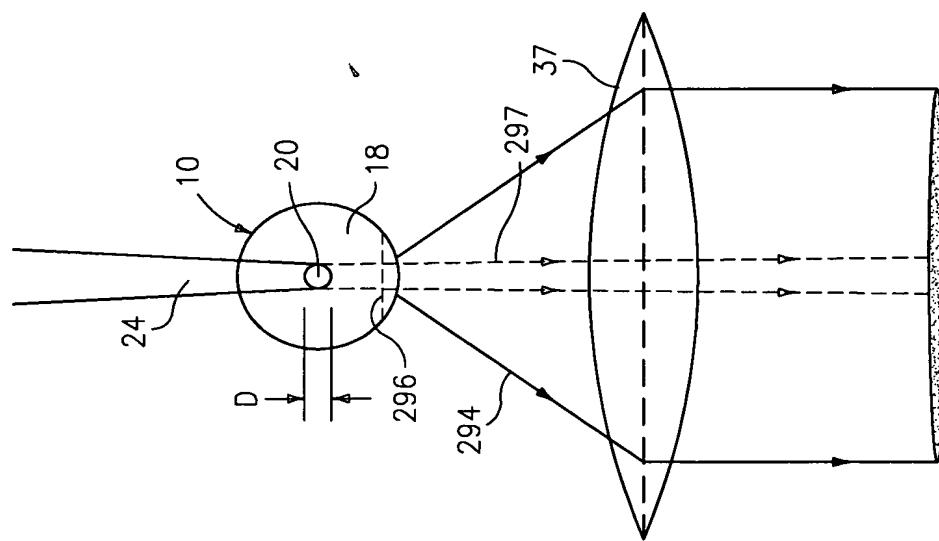


FIG. 15

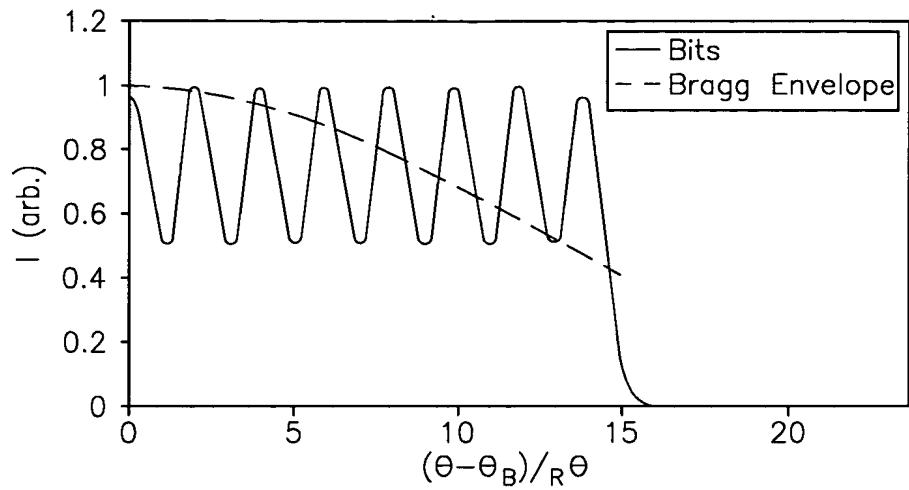


FIG. 18

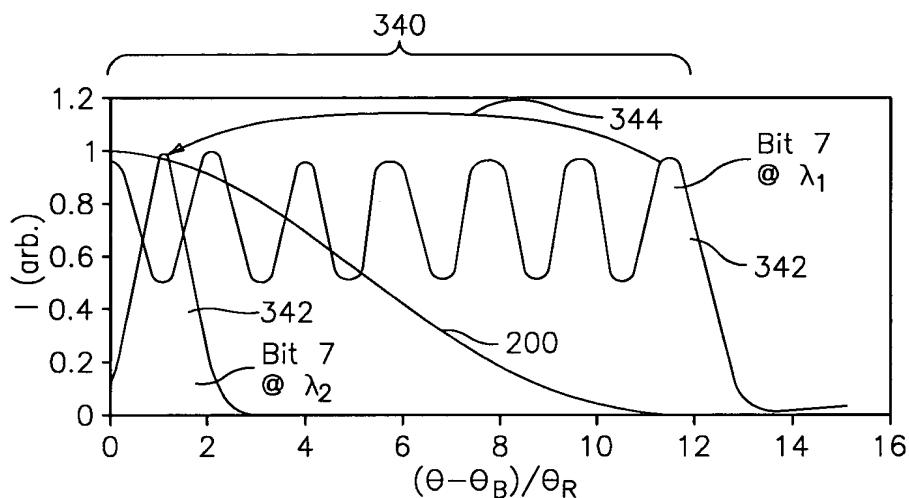


FIG. 20

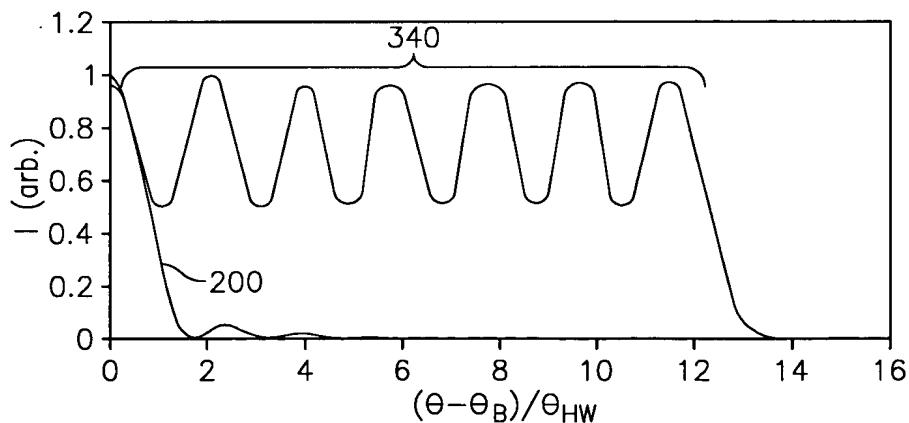


FIG. 21

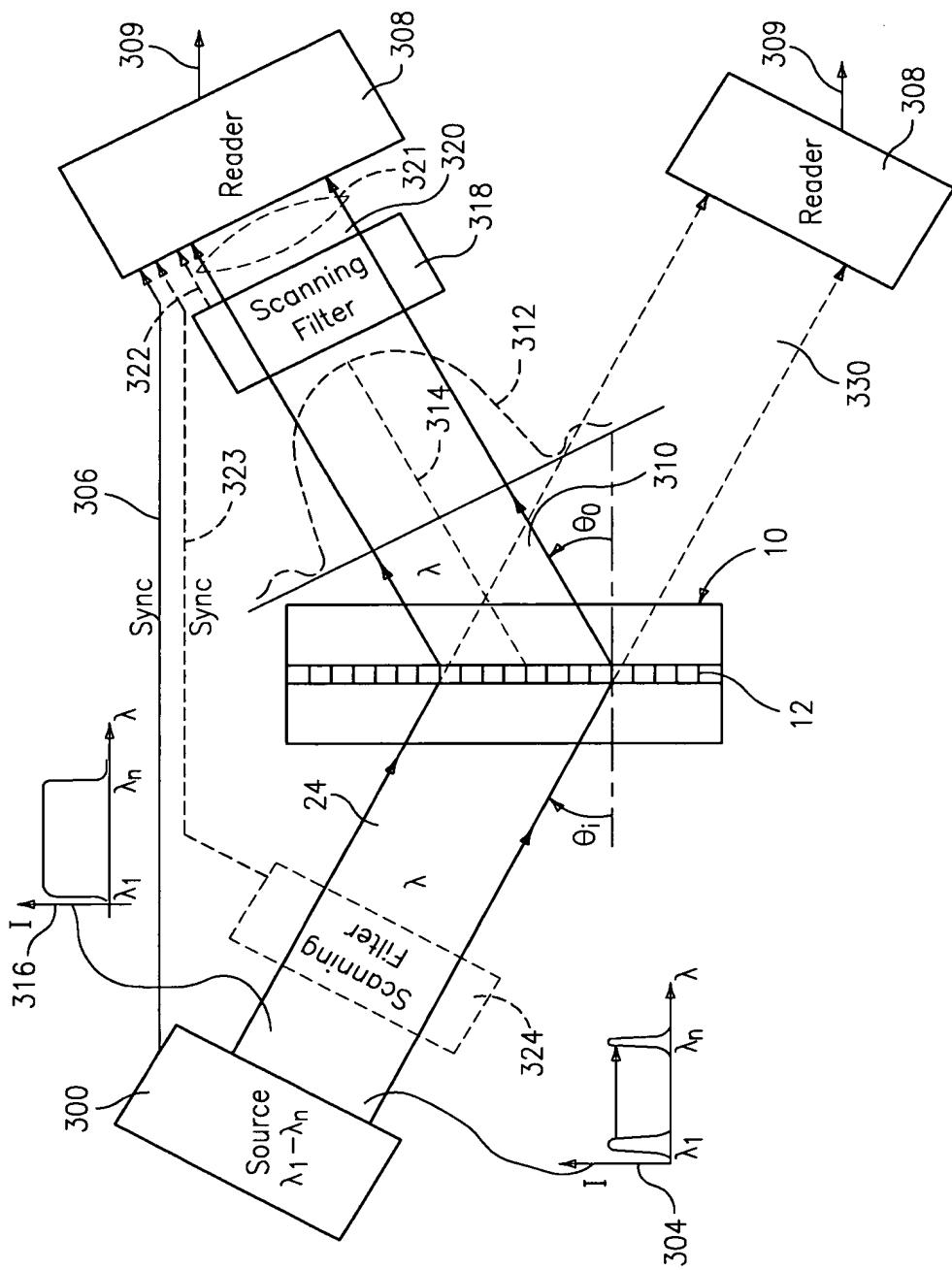


FIG. 19

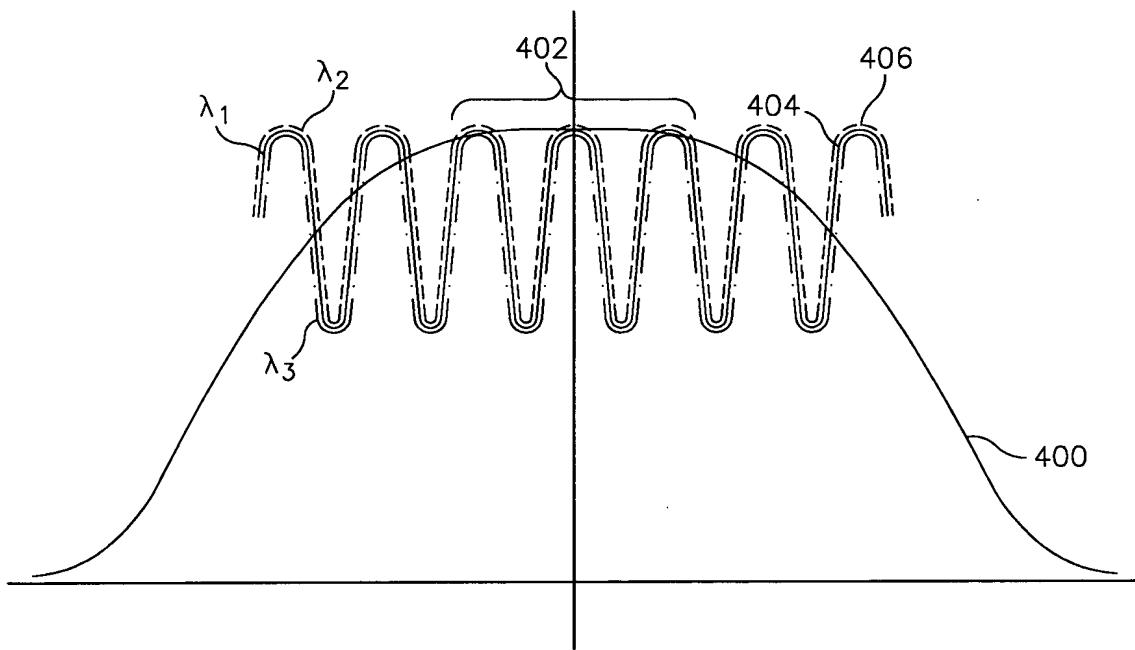


FIG. 22

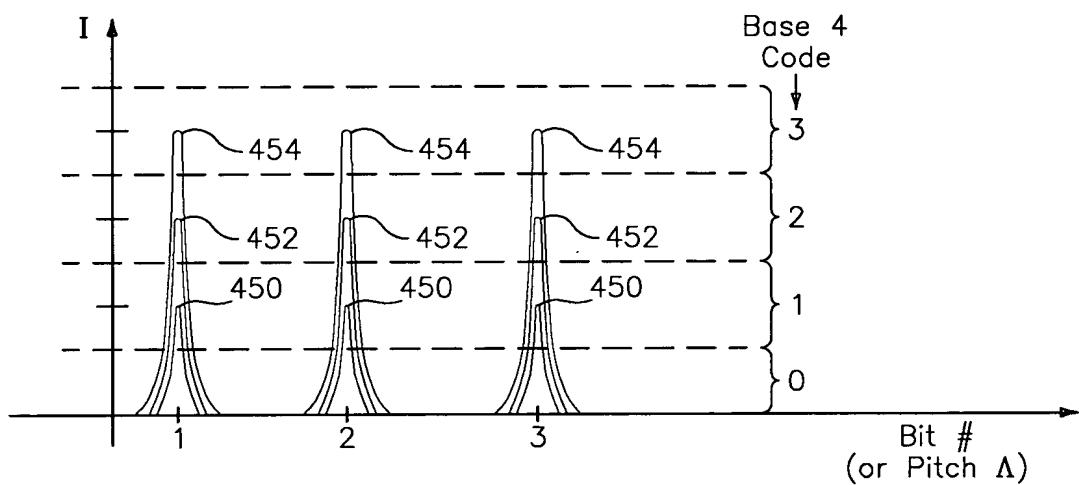


FIG. 27

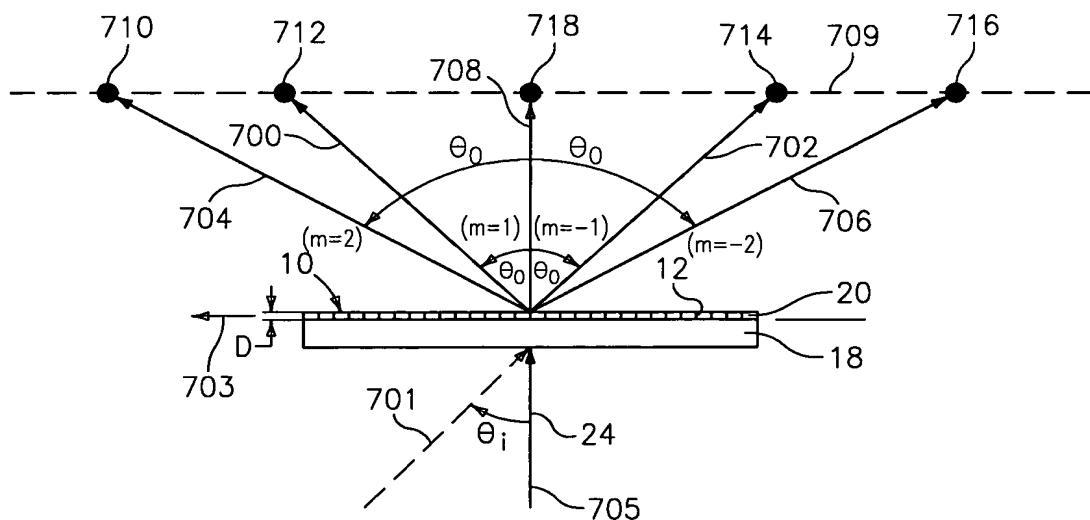


FIG. 23

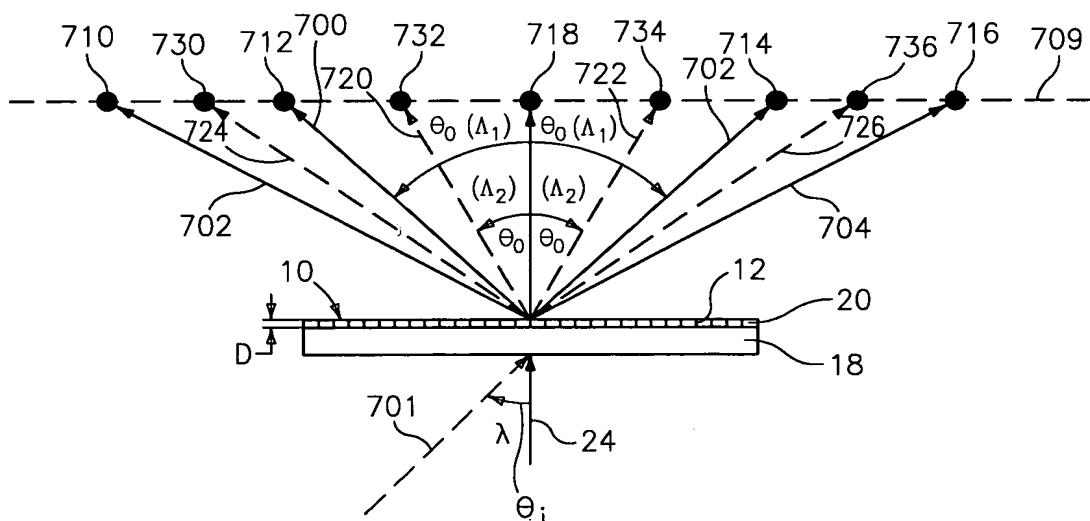
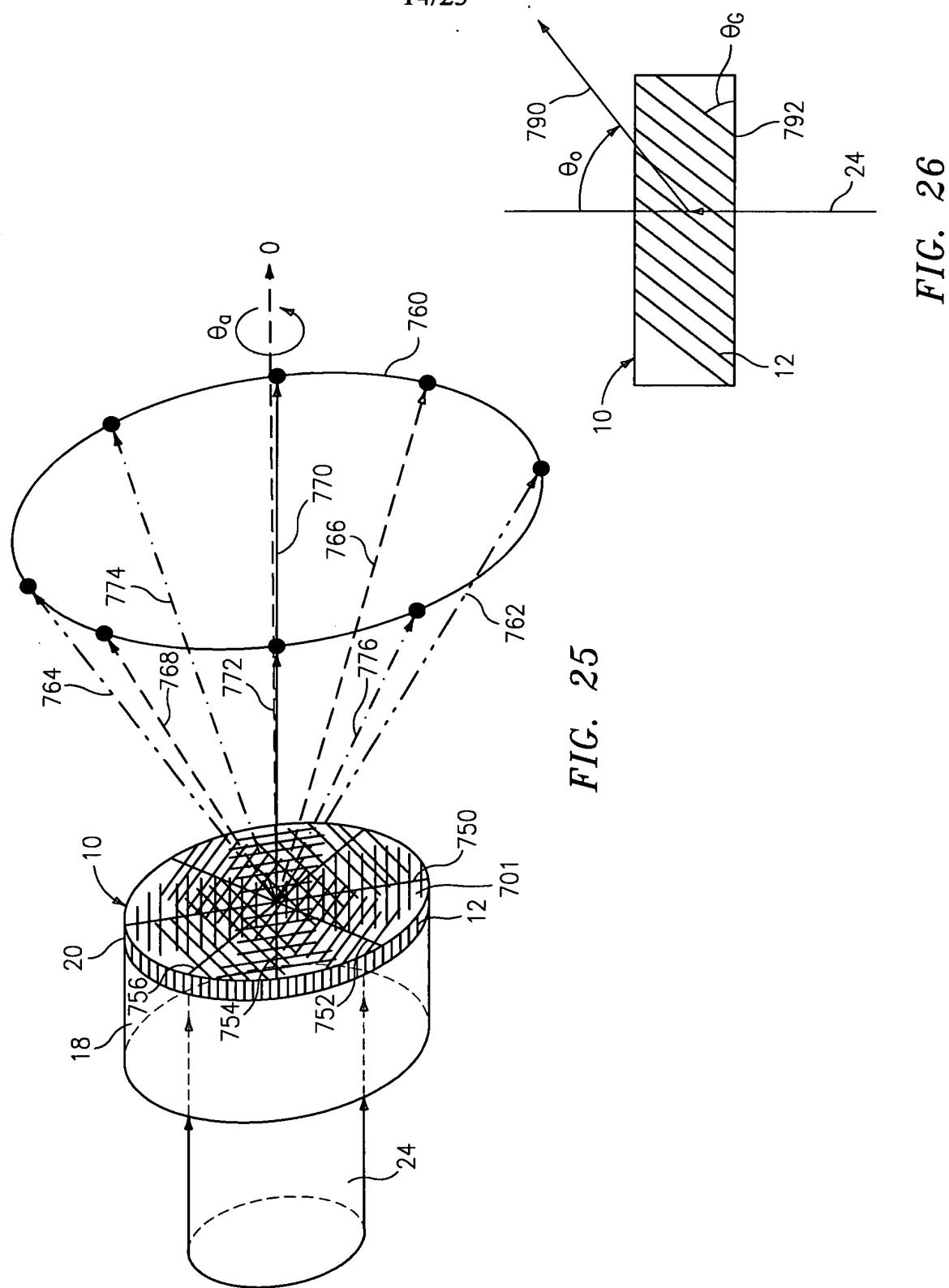


FIG. 24



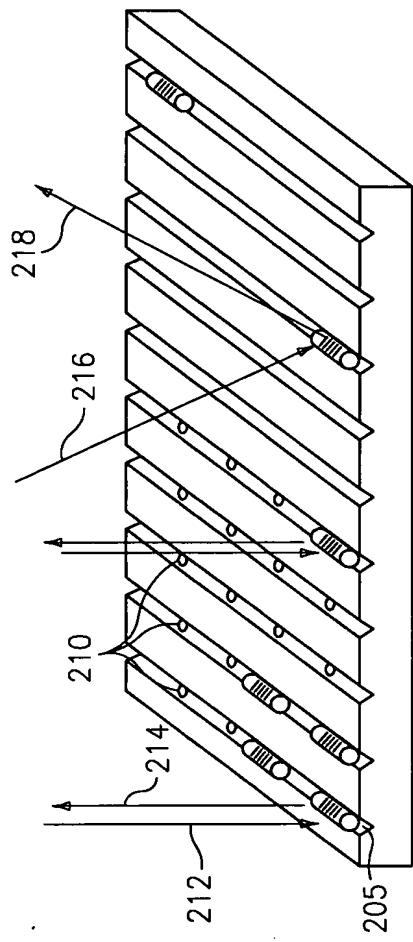


FIG. 28

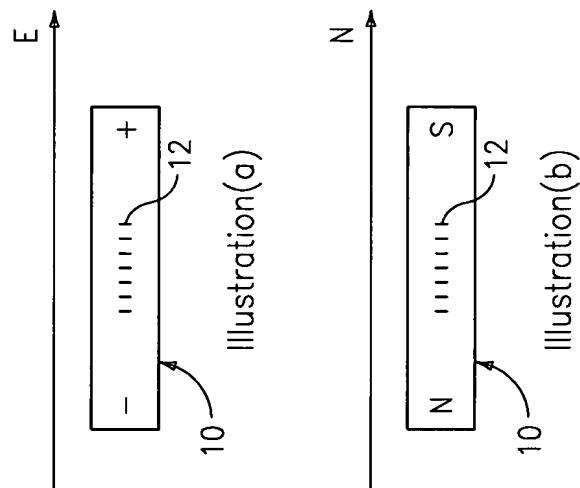


FIG. 57

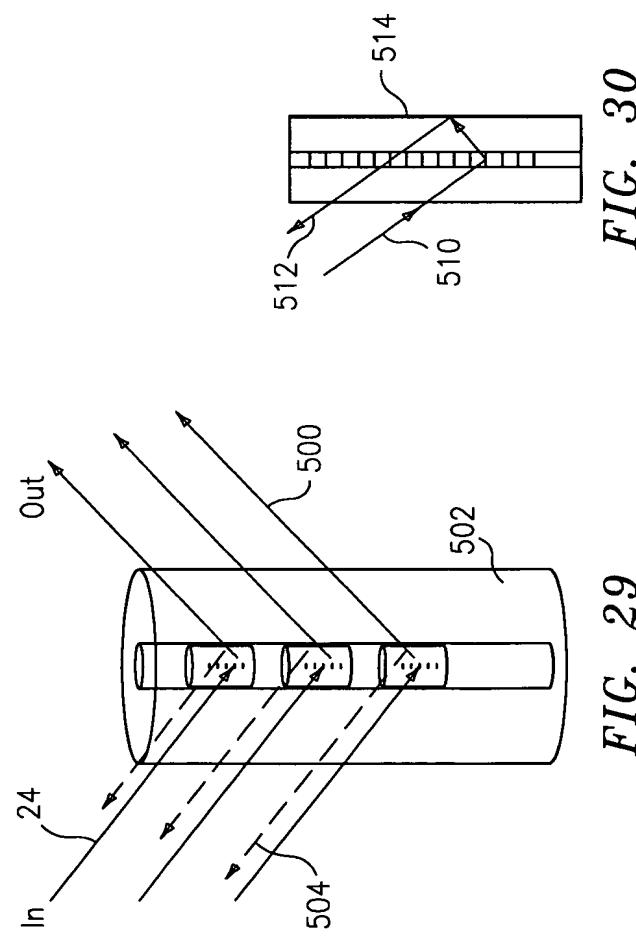
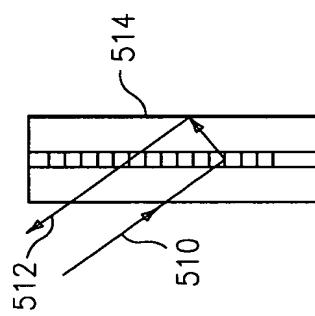


FIG. 29

FIG. 30



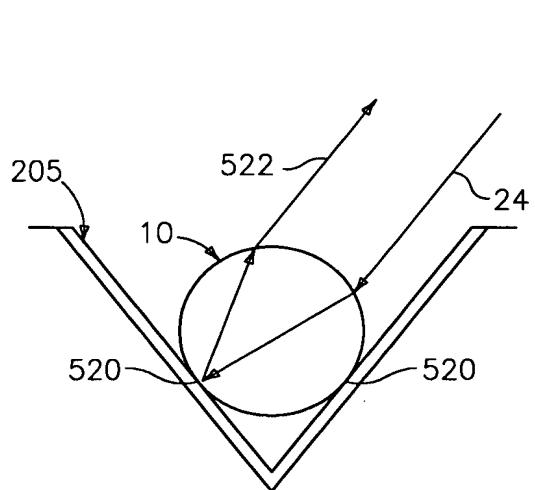


FIG. 31

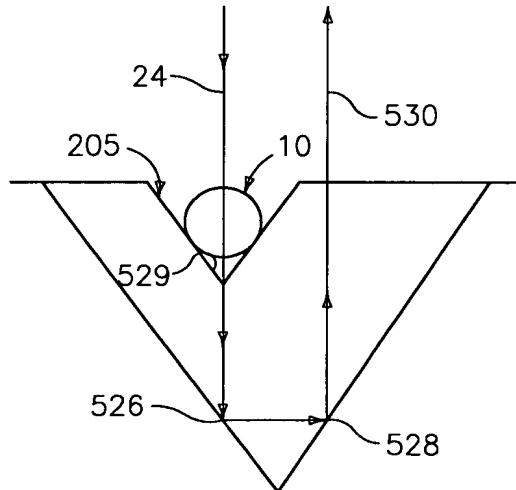


FIG. 32

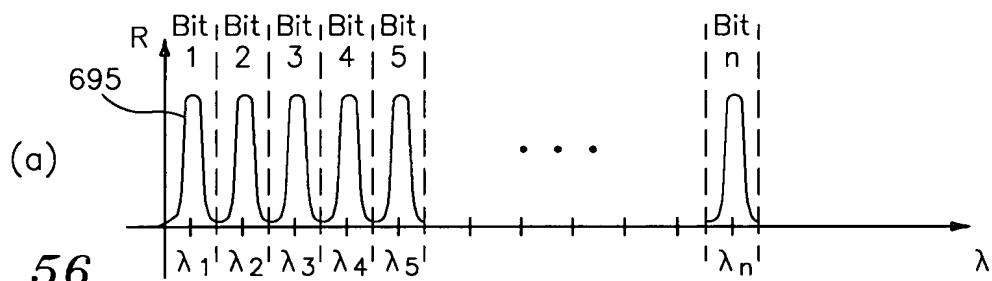
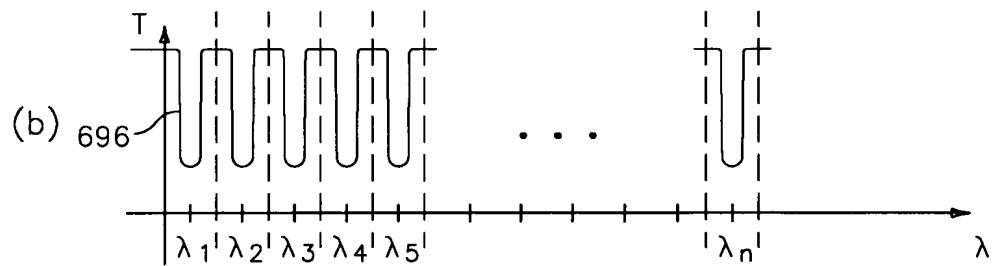


FIG. 56



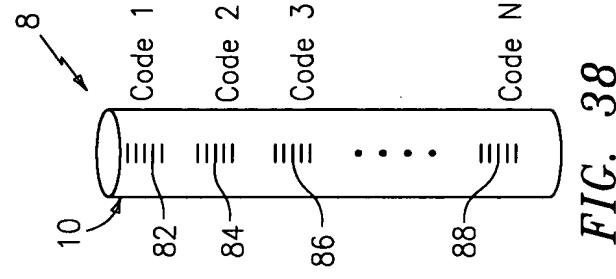
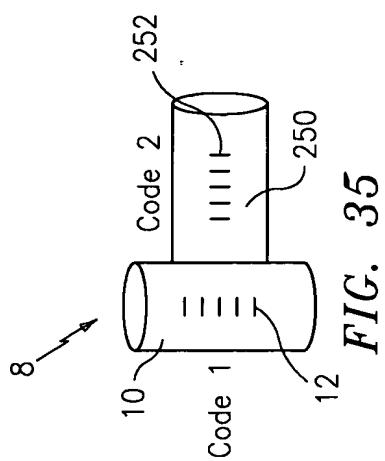
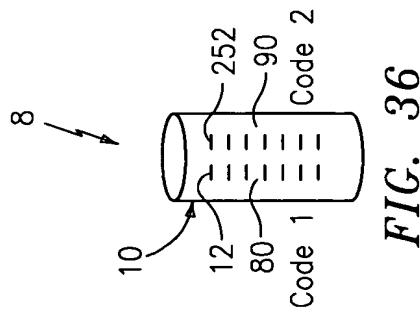
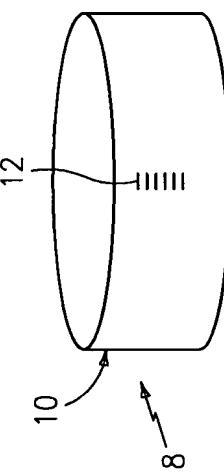
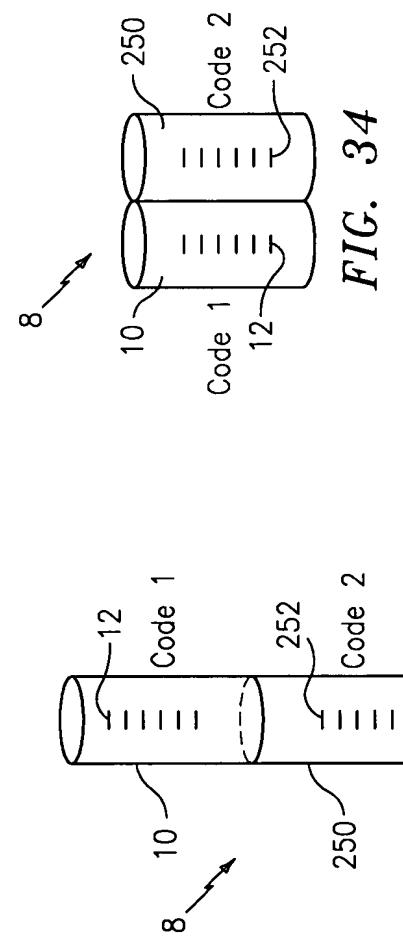


FIG. 58

FIG. 35

FIG. 38

FIG. 36

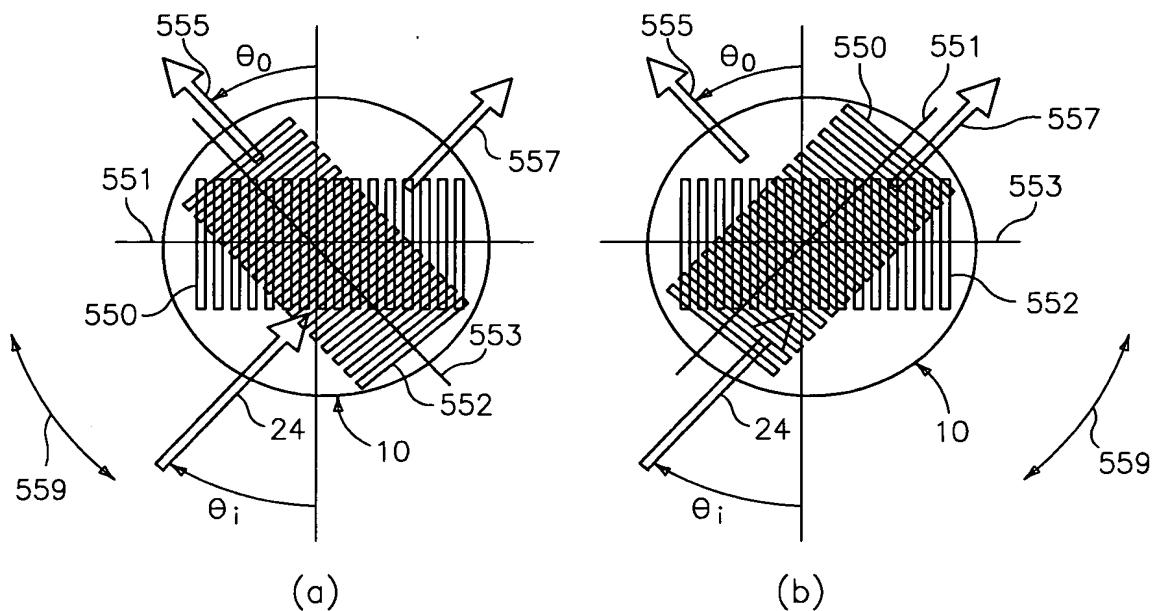


FIG. 39

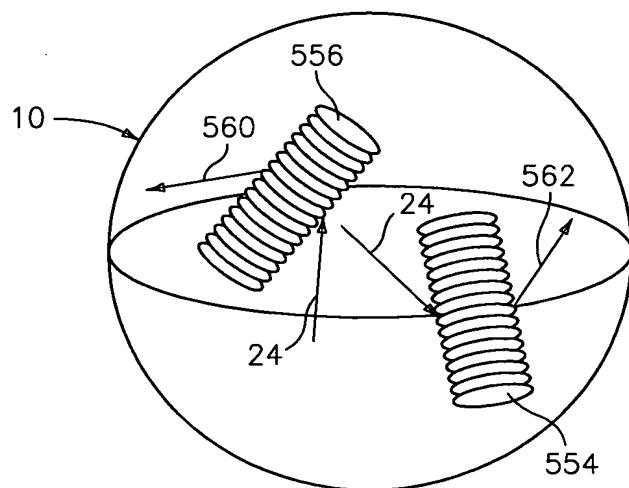
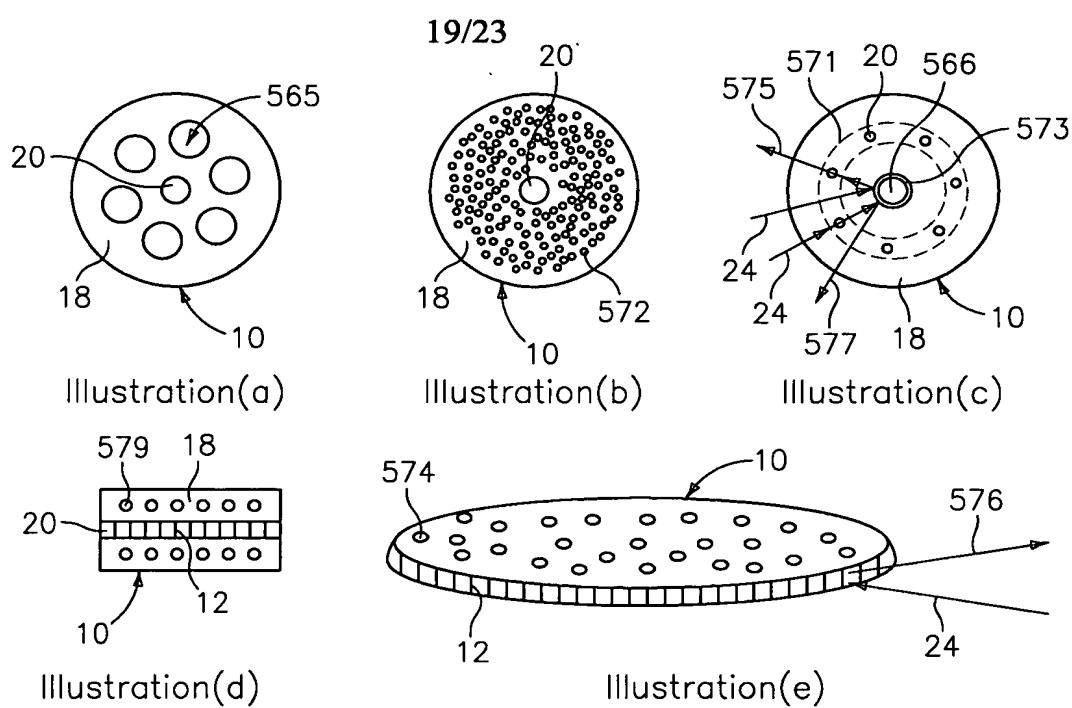
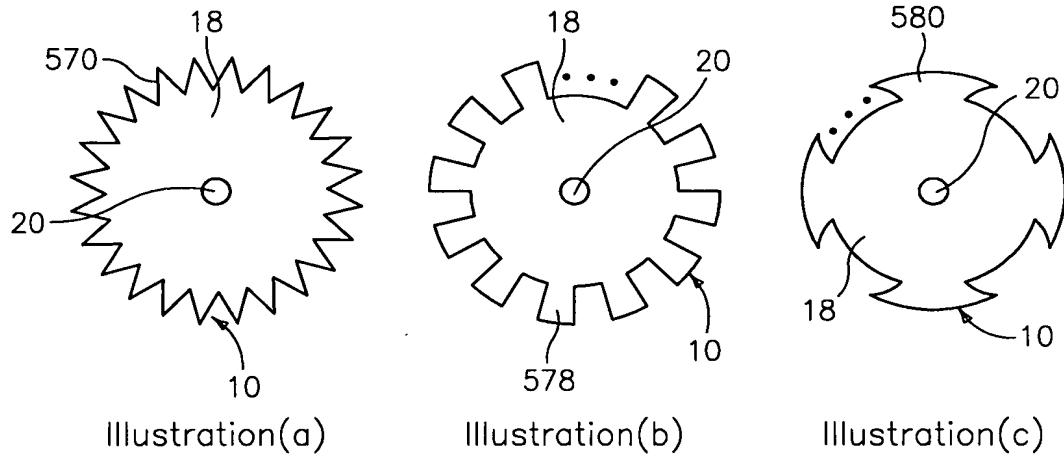


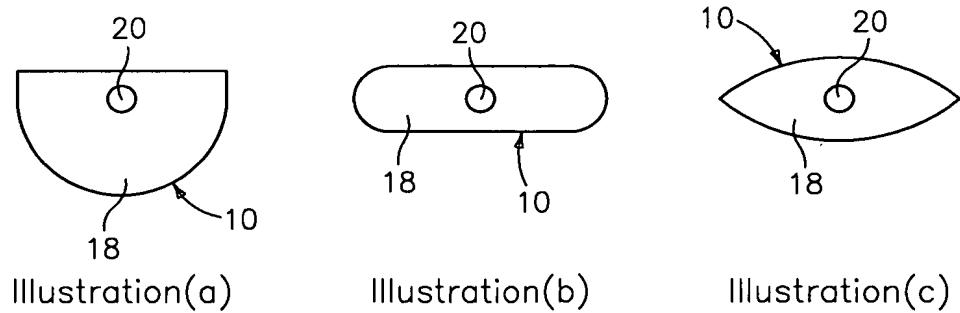
FIG. 40



**FIG. 41**



**FIG. 42**



**FIG. 43**

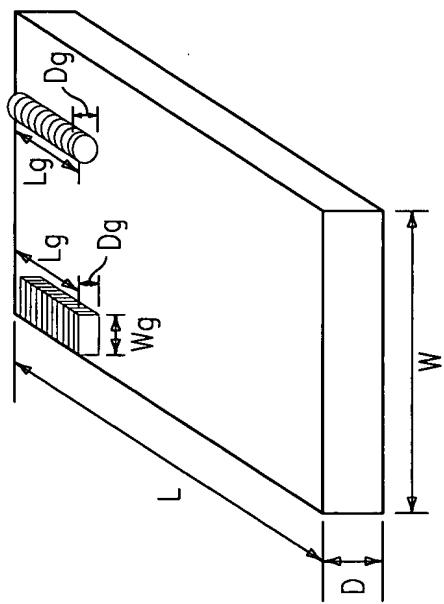


FIG. 44

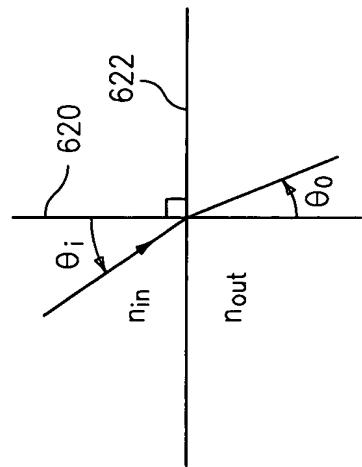


FIG. 46

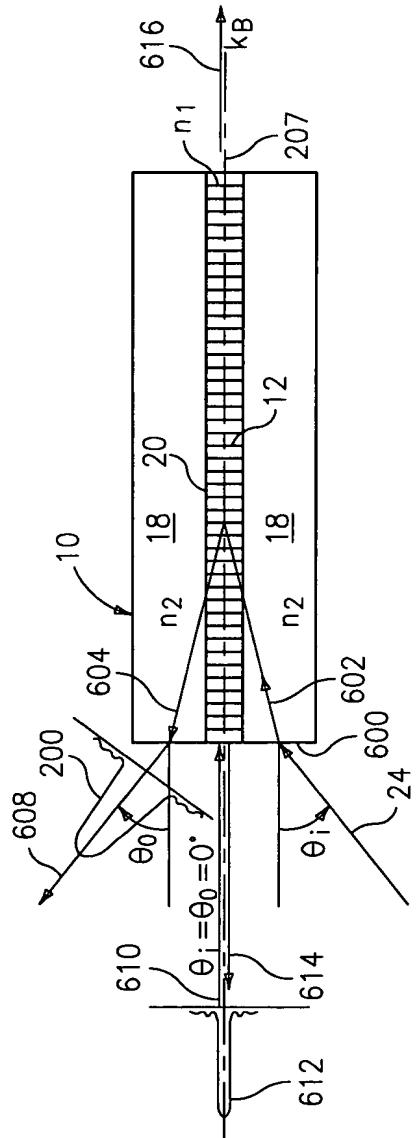


FIG. 45

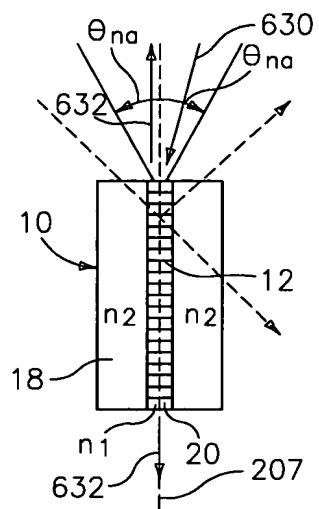


FIG. 47

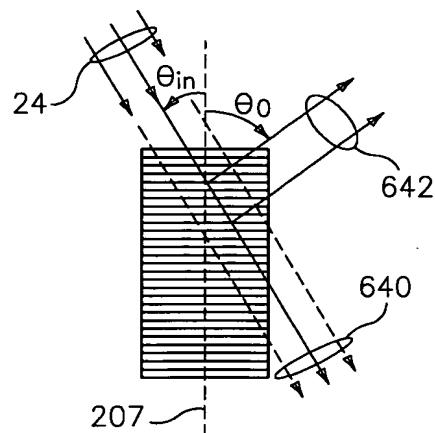


FIG. 48

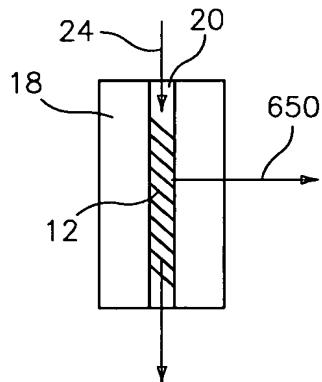


FIG. 49

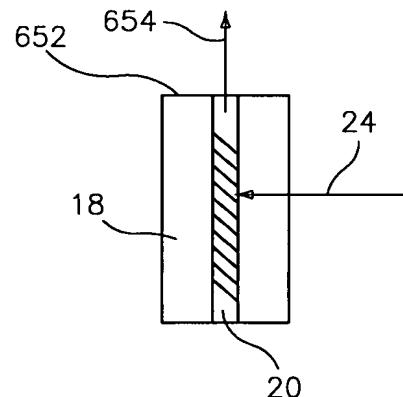


FIG. 50

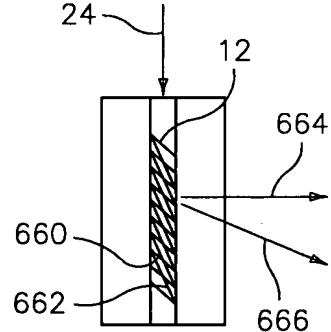
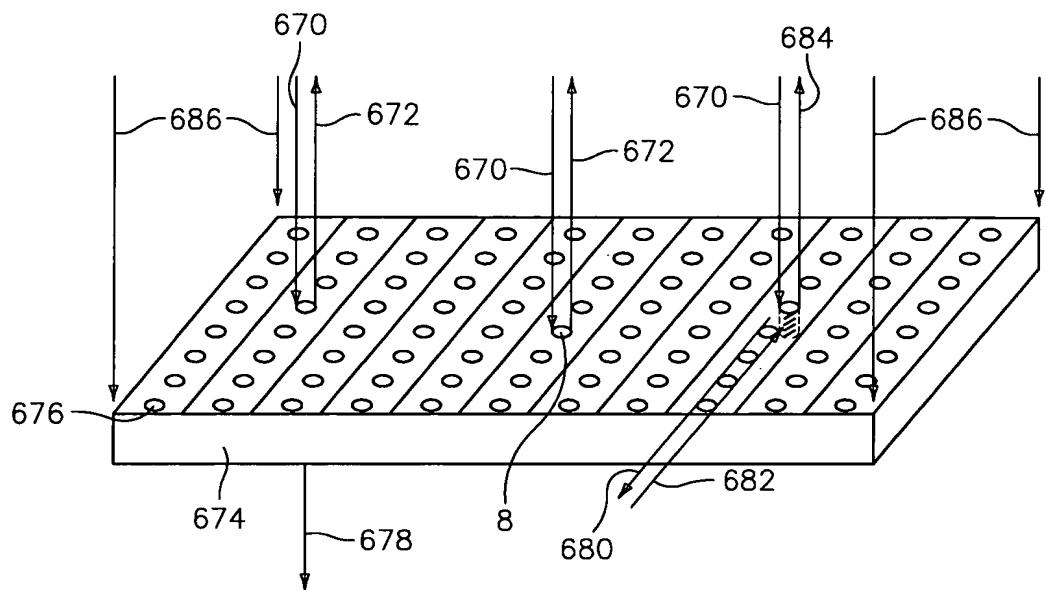
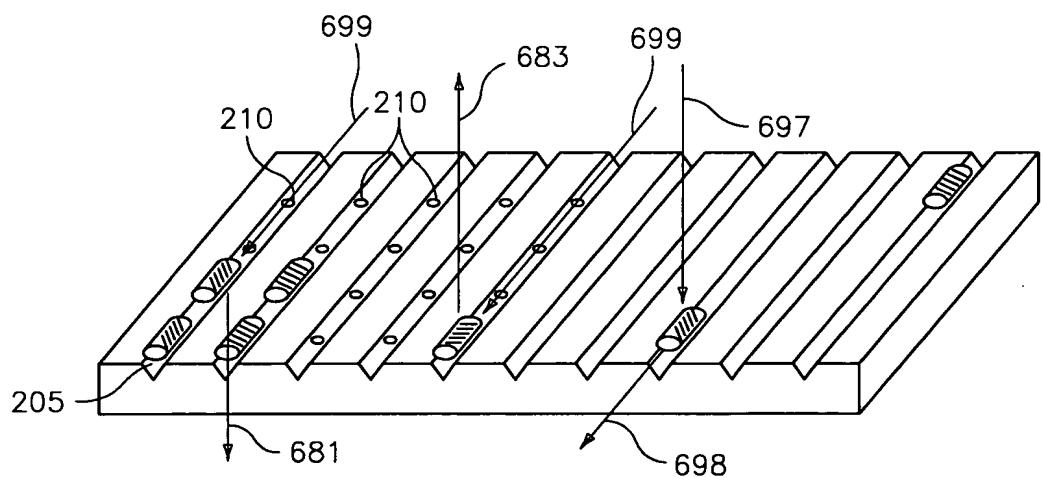


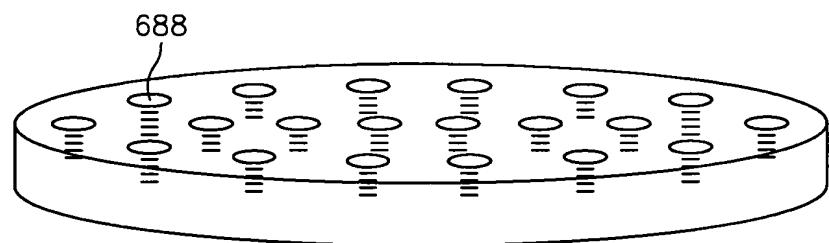
FIG. 51



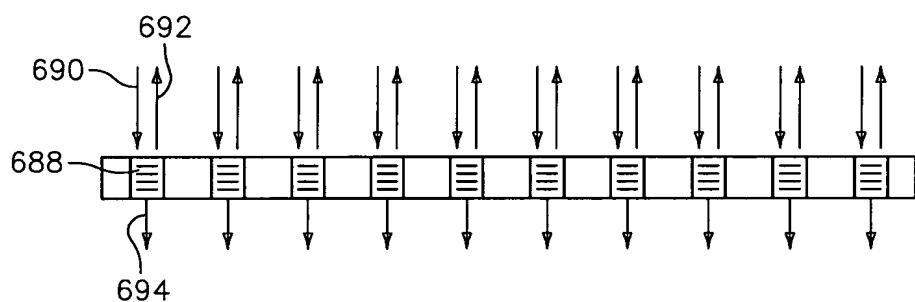
*FIG. 52*



*FIG. 53*



*FIG. 54*



*FIG. 55*